

WHAT WE CLAIM IS:

Claim 1. A current collecting structure comprising:

a current collecting substrate and
a carbon material formed on said current collecting substrate without the use of binders.

Claim 2. A current collecting structure comprising:

a current collecting substrate and
a rod-shaped, sponge-shaped, or fiber-shaped carbon material formed on said current collecting substrate.

Claim 3. A current collecting structure comprising:

a current collecting substrate,
a laminar carbon material formed on said current collecting substrate, and
a rod-shaped, sponge-shaped, or fiber-shaped carbon material formed on said laminar carbon material.

Claim 4. An electrode structure comprising the current collecting substrate of claim 1, and

an electrode active material formed on said surface of carbon material.

Claim 5. An electrode structure according to Claim 4, wherein

said electrode active material has a mean particle diameter of less than 2

microns.

Claim 6. A battery comprising the electrode structure of claim 4.

Claim 7. A capacitor comprising the electrode structure of claim 4.

Claim 8. An electrode structure comprising:

a current collecting substrate and

an electrode active material formed on said current collecting substrate

without the use of binders.

Claim 9. An electrode structure comprising:

a current collecting substrate and

a rod-shaped, sponge-shaped, or fiber-shaped electrode active material

formed on said current collecting substrate.

Claim 10. An electrode structure according to claim 8, wherein

said conductive material is formed on the surface of electrode active material.